T. S. WALLING.

HOLDER FOR SURGICAL INSTRUMENTS.

APPLICATION FILED SEPT. 19, 1906.

934,486. Patented Sept. 21, 1909.

Fig. 1.

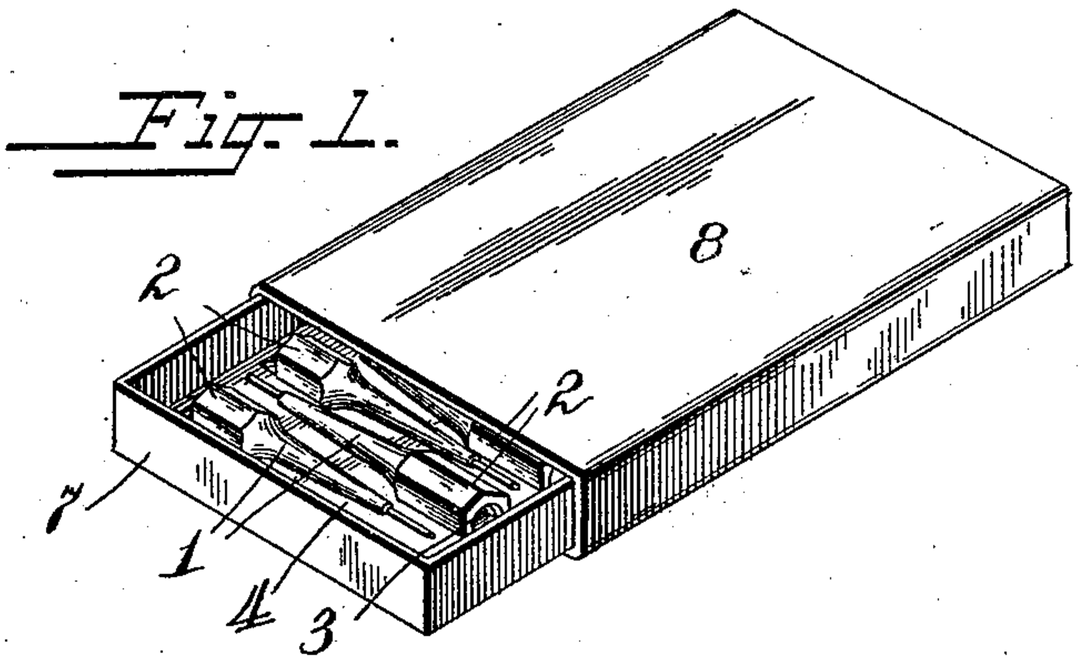


Fig. 2.

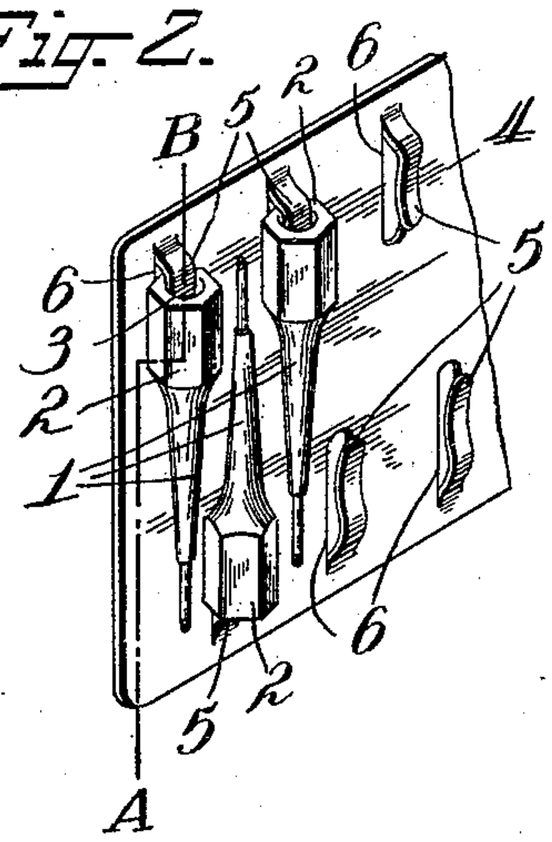


Fig. 4.

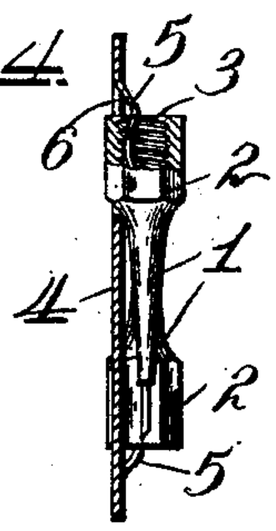


Fig. 3.

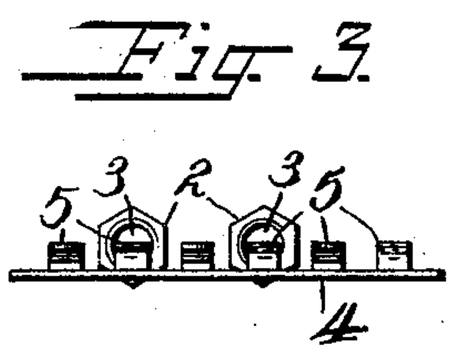
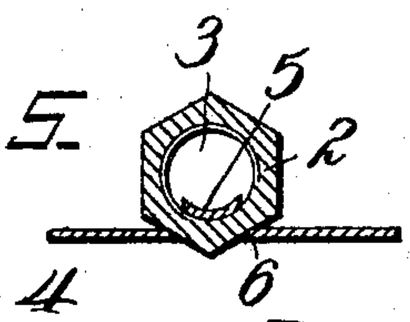


Fig. 5.



Witnesses
Milton Lenoir
Clara Phillips

Inventor
Thorne S. Walling
By John D. Morgan
Attorney.

UNITED STATES PATENT OFFICE.

THORNE S. WALLING, OF PASSAIC, NEW JERSEY.

HOLDER FOR SURGICAL INSTRUMENTS.

934,486.

Specification of Letters Patent. **Patented Sept. 21, 1909.**

Application filed September 19, 1906. Serial No. 335,194.

To all whom it may concern:

Be it known that I, THORNE S. WALLING, a citizen of the United States, residing at Passaic, in the county of Passaic and State of New Jersey, have invented new and useful Improvements in Holders for Surgical Instruments, of which the following is a specification.

The invention relates to holders for surgical instruments and more especially to holders for hypodermic needles.

Objects of the invention are to provide a holder which shall be compact, durable, of neat and attractive appearance, simple and inexpensive of manufacture, and which will hold the needles firmly in position while at the same time permitting of their being quickly and easily disengaged from the holding means. These and other objects of invention will in part be obvious and will in part more fully appear hereinafter.

The invention consists in the novel parts, articles, improvements and combinations herein shown and described.

The accompanying drawings, referred to herein and forming a part hereof, illustrate one embodiment of the invention, the same serving in connection with the description herein to explain the principles of the invention.

Of the drawings: Figure 1 is a perspective view of a package containing surgical instruments; Fig. 2 is a perspective view of a plate holding hypodermic needles; Fig. 3 is a side elevation corresponding to Fig. 2; Fig. 4 is a section on line A—B of Fig. 2; and Fig. 5 is a fragmentary sectional view of a somewhat different form.

Referring to the accompanying drawings which illustrate by way of example one embodiment of the invention, it will be seen that one feature of the invention comprises a holding plate having a resilient tongue carried thereupon, which tongue is shaped to engage the socket in the needle shank so as to hold the shank in frictional engagement with the plate, and that a further feature of the invention shown in the present embodiment comprises a tongue of resilient material struck up from the plate so as to leave an aperture therein, the tongue being formed to engage the socket in the needle shank so as to press the shank into the aperture in the plate.

Other features of the invention contemplate a package comprising a holding plate of the kind indicated, carrying any desired number of the needles, and also a casing inclosing the plate.

In the accompanying drawings a hypodermic needle is indicated generally by the reference numeral 1, the shank of the needle by 2 and the threaded socket in the shank by 3.

4 designates a plate of resilient material from which a suitably shaped tongue 5 has been struck up so as to leave an aperture 6 in the plate. The tongue 5 may be bent so as to give a gentle spring pressure such as will be sufficient to frictionally hold the needle firmly in engagement with the plate and yet permitting of the easy disengagement of the needle when desired. In the illustrated embodiment the parts are further shown so disposed that the tongue 5 serves to press the needle shank into the aperture in the plate, the shank thus being held more firmly than when held merely in frictional engagement with the plate.

The shank 2 of the needle may be round or polygonal and such shanks are frequently made hexagonal in form. In the drawings herewith the shank of hexagonal form is shown with two of its flat faces pressing against the edges of the aperture 6.

In Fig. 5 of the drawings one form of the tongue 5 is shown wherein the said tongue is curved so as to contact entirely along one of its faces with the interior of the socket 3 of the shank 2 of the needle. In the said figure also the plate 4 is shown as having the tongue struck out from the plate in such shape that the edges of the aperture 6 are of the same bevel as the contacting faces of the shank 5 so as to give a more extended surface for engagement between the plate and the shank. The plate 4 may be made to accommodate a plurality of needles which may be arranged for convenience in alternate positions as shown in Fig. 2 of the drawings, so as to occupy but a small space upon the plate.

According to one feature of the invention it is contemplated to provide a suitable case for containing the plate 4 and its series of needles held thereon. In the present embodiment the case is shown as comprising a sliding box having a portion 7 sliding within an outer portion 8 in a well-known manner. The part 7 is made so as to fit closely the plate 4, the whole thus forming a compact and stable package.

From all the foregoing it will be understood that a device has been provided which realizes the objects of invention and the advantages herein set forth, together with other objects and advantages. It will be understood further that certain changes can be made in a particular embodiment of the invention without departing from the principles thereof.

What I do claim as my invention and desire to secure by Letters Patent, is:

1. A surgical package including in combination a hypodermic needle, a plate having a resilient tongue carried thereupon, said tongue engaging the socket in the needle shank so as to press the needle shank in engagement with the plate.

2. A surgical package including in combination a hypodermic needle, a plate having a resilient tongue struck up therefrom so as to leave an aperture in the plate, said tongue engaging the socket in the needle shank so as to press the shank into the aperture in the plate.

3. A surgical package including in combination a plate, a plurality of hypodermic needles arranged in alternate positions upon the said plate, a plurality of resilient tongues carried upon the said plate and engaging the sockets in the shanks of the successive needles so as to press the needles in position upon the plate.

4. A surgical package including in combination a plate, a plurality of hypodermic needles arranged in alternate positions upon the said plate, a plurality of resilient tongues struck up in alternate directions from the said plate so as to leave apertures in the plate, the said tongues engaging sockets in the shanks of the successive needles so as to press each shank into its aperture in the plate.

5. A surgical package including in combination a hypodermic needle, a plate of resilient material having a tongue struck up therefrom so as to leave an aperture in the plate, said tongue engaging the socket in the needle shank so as to press the needle shank into the said aperture, and a case adapted to be opened and closed for containing the needle and plate, the said case fitting closely the said plate.

6. A surgical package including in combination a case, a plate within the said case, portions of the said case fitting closely the said plate so as to hold it in position, a plurality of hypodermic needles arranged in alternate positions upon the said plate, a plurality of resilient tongues carried by the said plate, each tongue engaging the socket in the shank of one of the said needles.

7. A surgical package including in combination a case, a plate within the said case, portions of the said case fitting closely the said plate so as to hold it in position, a plurality of hypodermic needles arranged in alternate positions upon the said plate, and a plurality of tongues struck up from said plate so as to form apertures therein so shaped that the shank of a needle will fit into an aperture, and so that a tongue will engage the socket in the needle shank to hold the needle in position upon the plate.

8. A surgical package including in combination an inclosing casing, a hypodermic needle therein and a member within the socket of the needle shank and exerting pressure thereupon to hold the needle in position while the point is free from contact with the casing.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

THORNE S. WALLING.

Witnesses:
JOHN D. MORGAN,
CLARA PHILLIPS.